



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/734,525	12/11/2003	Demetrius Sarigiannis	2269-5924US (03-0308.00/U)	9718
24247	7590	03/21/2006	EXAMINER	SCHILLINGER, LAURA M
TRASK BRITT P.O. BOX 2550 SALT LAKE CITY, UT 84110			ART UNIT	PAPER NUMBER
			2813	

DATE MAILED: 03/21/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/734,525	SARIGIANNIS ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Laura M. Schillinger	2813	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 07 November 2005.  
 2a) This action is FINAL.                  2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-37 is/are pending in the application.  
 4a) Of the above claim(s) 14-37 is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-13 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ . |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)               |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>12/11/03</u> . | 6) <input type="checkbox"/> Other: _____ .  |

## DETAILED ACTION

### *Election/Restrictions*

Claims 14-37 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected claims, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 11/7/05.

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-13 are rejected under 35 U.S.C. 102(e) as being anticipated by Derderian ('813)

The applied reference has a common inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

The following claimed limitations are anticipated by Derderian as cited below:

1. A method of removing halogenated materials from a halogen-containing environment, comprising: introducing at least one gaseous aluminum compound into the halogen-containing environment; reacting the at least one gaseous aluminum compound with at least one halogenated material to form a gaseous reaction product; and removing at least a portion of the gaseous reaction product from the environment (Col.2, lines: 35-50).
2. The method of claim 1, wherein introducing at least one gaseous aluminum compound into the halogen-containing environment comprises introducing the at least one gaseous aluminum compound into an environment having at least one halogenated material adhered to at least one surface associated therewith (Col.2, lines: 35-50).
3. The method of claim 1, wherein introducing at least one gaseous aluminum compound into the halogen-containing environment comprises introducing the at least one gaseous aluminum compound into an environment having the at least one halogenated material contained therewithin (Col.2, lines: 35-50).
4. The method of claim 1, wherein introducing at least one gaseous aluminum compound into the halogen-containing environment comprises pulsing the at least one gaseous aluminum compound into the halogen-containing environment (Col.6, lines: 20-25).
5. The method of claim 1, wherein introducing at least one gaseous aluminum compound into the halogen-containing environment comprises introducing the at least one gaseous aluminum

compound into the halogen-containing environment in an amount sufficient to react with the at least one halogenated material (Col.2, lines: 35-50).

6. The method of claim 1, wherein introducing at least one gaseous aluminum compound into the halogen-containing environment comprises introducing at least one organic aluminum compound selected from the group consisting of a TAA (Col.2, lines: 35-50 and Col.8, lines: 1-15 and lines: 25-33).).

7. The method of claim 1, wherein introducing at least one gaseous aluminum compound into the halogen-containing environment comprises introducing at least one organic aluminum compound selected from the group consisting of TMA into the halogen-containing environment (Col.2, lines: 35-50 and Col.8, lines: 1-15 and lines: 25-33).

8. The method of claim 1, wherein introducing at least one gaseous aluminum compound into the halogen-containing environment comprises introducing TMA into the halogen-containing environment (Col.2, lines: 35-50 and Col.8, lines: 1-15 and lines: 25-33).).

9. The method of claim 1, wherein introducing at least one gaseous aluminum compound into the halogen-containing environment comprises introducing at least one organic aluminum compound selected from the group consisting of dimethyl aluminum hydride, diethyl aluminum hydride; and methyl ethyl aluminum hydride into the halogen-containing environment(Col.2, lines: 35-50 and Col.8, lines: 1-15 and lines: 25-33)..

10. The method of claim 1, wherein introducing at least one gaseous aluminum compound into the halogen-containing environment comprises introducing the at least one gaseous aluminum compound into a deposition chamber contaminated with the at least one halogenated material (Col.2, lines: 35-50).

11. The method of claim 1, wherein reacting the at least one gaseous aluminum compound with at least one halogenated material to form a gaseous reaction product comprises reacting the at least one gaseous aluminum compound with the at least one halogenated material to form an aluminum halide compound (Col.2, lines: 50-60).

12. The method of claim 1, wherein reacting the at least one gaseous aluminum compound with at least one halogenated material comprises reacting the at least one gaseous aluminum compound with at least one of Cl (Col.2, lines: 45-60).

13. The method of claim 1, wherein removing at least a portion of the gaseous reaction product from the environment comprises venting the environment or applying a vacuum to the environment (Col.5, lines: 1-10).

*Conclusion*

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura M. Schillinger whose telephone number is (571) 272-1697. The examiner can normally be reached on M-T, R-F 7:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl W. Whitehead, Jr. can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Laura M Schillinger  
Primary Examiner  
Art Unit 2813

03/13/06  
/